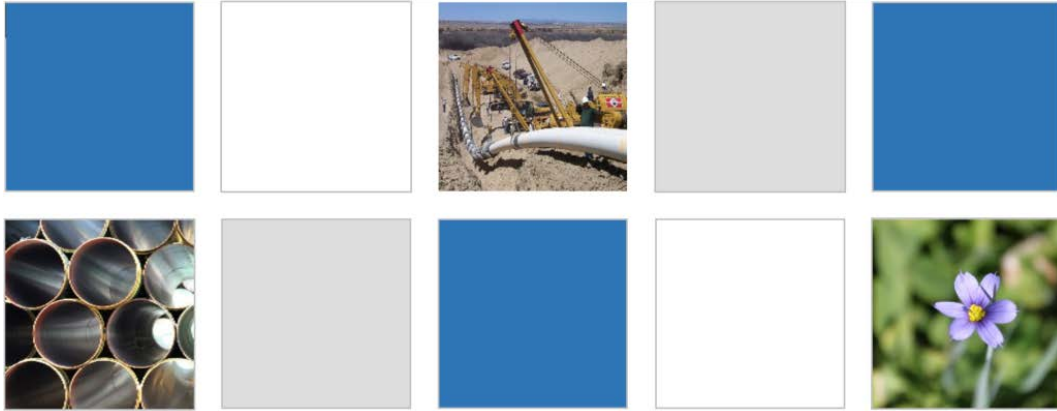


Exhibit D
Wetlands and Waterbodies Summary



**Dakota Access, LLC
Dakota Access Pipeline Project (ND)**

Wetlands and Waterbodies Summary (Final)

PRESENTED BY MERJENT, INC.
December 18, 2014

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1.0 INTRODUCTION

Dakota Access, LLC (Dakota Access) contracted with Merjent, Inc. (Merjent) to assist in obtaining environmental data and permits associated with the Dakota Access Pipeline Project (DAPL Project) within North Dakota. The DAPL Project is approximately 1,134 miles in length and will transport crude oil from Stanley, North Dakota, to Pakota, Illinois. The North Dakota portion of the DAPL Project is approximately 358.5 miles in length (which consists of approximately 148 miles of the Supply Line and approximately 210 miles of the Mainline) and crosses seven counties (Mountrail, Williams, McKenzie, Dunn, Mercer, Morton, and Emmons).

The purpose of this report is to describe the methods and results of the wetland and waterbody delineations that were conducted during the 2014 growing season for the North Dakota portion of the DAPL Project.

2.0 METHODS

2.1 FIELD DETERMINATIONS

The wetland and waterbody field delineations were conducted from August 2014 through November 2014 along the DAPL Project route within a 400-foot survey corridor. Field crews assessed wetlands and waterbodies within the 400-foot survey corridor where survey permission was granted and where vegetation was suitable for assessment. Some areas were not assessed in 2014 due to either lack of survey access, crop restrictions, vegetation die-back, or weather conditions. Field-based wetland and waterbody delineations will continue during the 2015 growing season.

2.1.1 Wetlands

Wetland investigations were conducted using the on-site methodology set forth in the 1987 USACE Wetlands Delineation Manual (1987 Manual) and the 2010 USACE Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Great Plains Region (Regional Supplement). In addition to the 1987 Manual and the Regional Supplement, wetland areas were examined through analysis of the vegetation, soils, and hydrology as described in the Classification of Wetland and Deepwater Habitats of the United States (Cowardin et al. 1979) and The National Wetland Plant List (Lichvar et al. 2014).

2.1.2 Waterbodies

Waterbodies were identified and classified according to their Cowardin classification as either ephemeral (R6), intermittent (R4SB), or perennial (R3UB, R2US). Waterbodies were generally identified as streams or rivers with an Ordinary High Water Mark (OHWM), and lacked wetland characteristics. Waterbodies with an OHWM of 10 feet or less in width were located by walking the centerline of the waterbody (or as close to the centerline as possible). Waterbodies with an OHWM greater than 10 feet were delineated along the edge of each bank.

2.2 DESKTOP ANALYSIS

A desktop analysis to identify wetlands and waterbodies was conducted along the 400-foot corridor where surveys were not completed in 2014. These areas will be field verified as landowner access allows during the 2015 growing season.

2.2.1 Wetlands

The best available data were used in ArcGIS and include the U.S. Fish & Wildlife Service’s National Wetland Inventory (NWI) dataset, aerial imagery, and topography. Polygons were drawn in ArcGIS by an experienced biologist who used professional judgment with regard to the presence/absence of wetland features based on aerial images, the NWI dataset, and topography.

2.2.2 Waterbodies

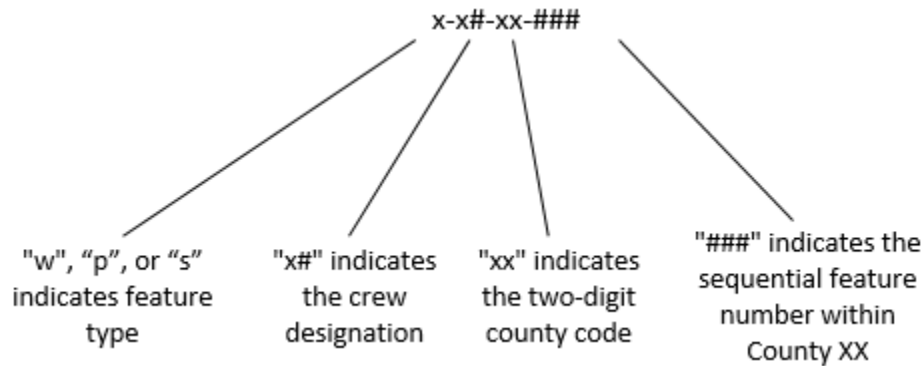
The best available data were used in ArcGIS and included the U.S. Geologic Survey’s National Hydrography Dataset (NHD), aerial imagery, and topography. Polygons were drawn in ArcGIS by an experienced biologist who used professional judgment with regard to the presence/absence of wetland features based on aerial images, the NHD, and topography. Naming Conventions

Wetland and waterbody feature nomenclature is specific to the DAPL Project is labeled in accordance with the methods outlined below. The general format for unique IDs includes a feature type, county code, crew designation, and a sequential three-digit feature identifier. The county codes for North Dakota are also specific to the DAPL Project is used based on the abbreviations in Table 2.3-1. Each crew lead was be given a crew designation at the beginning of the field season to differentiate their data from other crew leads and to eliminate any unnecessary coordination with other crews working in the same county for sequential feature numbering purposes.

Table 2.3-1	
North Dakota County Abbreviations	
County	Abbreviation
Mountrail	MT
Williams	WI
McKenzie	MK
Dunn	DU
Mercer	ME
Morton	MO
Emmons	EM

All features were labeled using a nomenclature that includes a feature type, crew designation, county code, and a sequential feature identifier. Feature types were deciphered by using “w” for wetland, “p” for ponds and lakes, and “s” for streams and rivers. Features that were desktop delineated by Merjent are titled with a “d” in lieu of a crew designation.

Figure 1: Feature Naming Convention



For example, w-k1-du-001 would be the first wetland delineated by Crew K1 in Dunn County, and w-m1-em-015 would be the fifteenth wetland mapped by Crew M1 in Emmons County. An example of a desktop delineated wetland would be w-d-mo-003 and would represent the third desktop delineated wetland in Morton County.

For example, p-k1-du-001, would be the first pond delineated by Crew K1 in Dunn County, and p-m1-em-015 would be the fifteenth lake by Crew M1 in Emmons County. An example of a desktop delineated lake or pond would be p-d-mo-003 and would represent the third desktop delineated lake or pond in Morton County.

For example, s-k1-du-001 would be the first waterbody collected by Crew K1 in Dunn County, and s-m1-em-015 would be the fifteenth waterbody delineated by Crew M1 in Emmons County. An example of a desktop delineated waterbody would be p-d-mo-003 and would represent the third desktop delineated waterbody in Morton County.

3.0 RESULTS

During the 2014 survey effort field crews surveyed 69.41 percent of the Supply Line and 56.61 percent of the Mainline (see Table 3.0-1). Field-based wetland and waterbody delineations will continue in 2015 when conditions are suitable and access is available.

Table 3.0-1				
Field Survey Progress for the DAPL Project by County				
County	Mile Post Range	Total Miles	Miles Completed	Percent Complete
Supply Line				
Mountrail County	0-23	22.49	16.45	73.15%
Williams County	24-93	73.84	49.06	66.44%
McKenzie County	94 - 142.47	51.83	35.57	68.63%
SUPPLY LINE TOTALS:		148.15	101.08	69.41%
Mainline				
McKenzie County	0 - 11	10.52	2.36	22.41%
Dunn County	12-63	52.20	16.69	31.98%
Mercer County	64 - 89	28.47	26.71	93.80%
Morton County	90 - 160	72.74	47.75	65.65%
Emmons County	161 - 203.5	46.22	31.98	69.19%
MAINLINE TOTALS:		210.15	125.49	56.61%

A total of 437 wetlands (field and desktop delineated) are crossed by the DAPL Project (see Table 3.0-2). These features are shown in tabular format in Appendix A. A total of 211 waterbodies (field and desktop delineated) are crossed by the DAPL Project (see Table 3.0-2). These features are shown in tabular format in Appendix B.

Table 3.0-2				
Summary of Wetland and Waterbody Survey Results				
Pipeline Segment	Feature type	Number of Features Crossed	Acres within 400' Survey Corridor	Construction Impacts (acre)
Supply Line	Wetlands			
	PFO	2	3.58	0.47
	PUB	34	21.78	4.14
	PEM	170	137.57	33.78
	Waterbodies			
	Perennial	23	21.88	3.71
	Intermittent	29	3.79	0.83
	Ephemeral	14	0.74	0.15
Mainline	Wetlands			
	PFO	2	8.91	0.48
	PUB	26	3.30	0.47
	PEM	203	95.80	21.25
	Waterbodies			
	Perennial	57	74.16	16.91
	Intermittent	54	9.54	2.19
	Ephemeral	34	1.35	0.36

All field and desktop delineated wetlands and waterbodies are shown spatially in the Environmental Features Map set, which is included as Exhibit A.4 of the DAPL Project North Dakota Public Service Commission Combined Application For Certificate Of Corridor Compatibility and Route Permit. The associated USACE Wetland Determination Forms for the field delineated wetland features are included as Appendix C (available upon request), and the Wetland Community Forms with corresponding photographs are attached as Appendix D (available upon request). The Waterbody Community Forms and accompanying photographs are included as Appendix E (available upon request).

4.0 REFERENCES

- Cowardin, L. M., V. Carter, F.C. Golet, and E.D. LaRoe. 1979. Classification of Wetlands and Deepwater Habitats of the United States. U.S. Department of the Interior, Fish and Wildlife Service, Office of Biological Services, Washington, D.C.
- Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- Lichvar, R.W., M. Butterwick, N.C. Melvin, and W.N. Kirchner. 2014. The National Wetland Plant List: 2014 Update of Wetland Ratings. Phytoneuron 2014-41: 1-42.
- U.S. Army Corps of Engineers. 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Great Plains Region (Version 2.0). ERDC/EL TR-10-1, U.S. Army Engineer Research and Development Center, Vicksburg, MS.

Appendix A
Wetland Impacts Table

Appendix A: Wetland Impacts Table

Pipeline Segment	Milepost	Feature ID	Cowardin Classification	PCN (Yes/No)	Delineation Status	400' Survey Corridor Impact (acre)	Workspace Impact (acre)
Supply Line	0.00	w-k2-mt-001	PEM	No	Field Delineated	0.278	0.000
Supply Line	0.00	w-k2-mt-002	PEM	No	Field Delineated	0.058	0.000
Supply Line	0.16	w-k3-mt-002	PEM	No	Field Delineated	0.140	0.138
Supply Line	0.38	w-k3-mt-003	PEM	No	Field Delineated	0.158	0.156
Supply Line	0.51	w-k3-mt-004	PEM	No	Field Delineated	0.294	0.000
Supply Line	1.06	w-k7-mt-001	PEM	No	Field Delineated	0.590	0.175
Supply Line	1.52	w-k7-mt-002	PEM	No	Field Delineated	0.991	0.375
Supply Line	1.62	w-k3-mt-001	PEM	No	Field Delineated	0.291	0.000
Supply Line	3.26	w-k2-mt-012	PEM	No	Field Delineated	0.695	0.340
Supply Line	3.40	p-k2-mt-001	PUB	No	Field Delineated	6.917	0.875
Supply Line	3.46	w-k2-mt-012	PEM	No	Field Delineated	2.734	0.340
Supply Line	3.79	w-k2-mt-014	PEM	No	Field Delineated	0.316	0.061
Supply Line	4.14	w-k2-mt-013	PEM	No	Field Delineated	0.689	0.450
Supply Line	5.00	w-d-mt-001	PEM	No	Desktop	0.130	0.000
Supply Line	5.07	w-d-mt-002	PEM	No	Desktop	0.479	0.334
Supply Line	5.20	w-d-mt-003	PEM	No	Desktop	0.334	0.159
Supply Line	5.30	w-d-mt-004	PEM	No	Desktop	0.542	0.372
Supply Line	5.37	w-d-mt-005	PEM	No	Desktop	0.145	0.000
Supply Line	5.38	p-d-mt-001	PUB	No	Desktop	1.184	0.145
Supply Line	5.42	w-d-mt-006	PEM	No	Desktop	1.415	0.680
Supply Line	5.64	w-k2-mt-016	PEM	No	Field Delineated	2.498	0.246
Supply Line	5.67	w-k2-mt-017	PEM	No	Field Delineated	0.142	0.092
Supply Line	6.18	w-k2-mt-018	PEM	Yes	Partially Field Delineated	17.337	4.682
Supply Line	6.29	p-d-mt-003	PUB	Yes	Desktop	0.349	0.000
Supply Line	6.34	p-d-mt-002	PUB	Yes	Desktop	3.300	0.906
Supply Line	6.42	p-d-mt-004	PUB	Yes	Desktop	0.072	0.000
Supply Line	6.45	w-d-mt-007	PEM	Yes	Desktop	11.628	2.592
Supply Line	6.64	w-k2-mt-019	PEM	No	Field Delineated	0.494	0.000
Supply Line	6.72	w-k2-mt-020	PEM	No	Field Delineated	0.663	0.263
Supply Line	6.92	w-k2-mt-021	PEM	No	Field Delineated	0.182	0.171
Supply Line	7.20	p-d-mt-005	PUB	No	Desktop	0.566	0.056
Supply Line	7.28	w-d-mt-008	PEM	No	Desktop	0.647	0.396
Supply Line	7.42	p-d-mt-006	PUB	No	Desktop	0.322	0.000
Supply Line	7.55	p-d-mt-007	PUB	No	Desktop	0.144	0.021
Supply Line	7.56	w-k7-mt-003	PEM	No	Field Delineated	0.387	0.291
Supply Line	7.67	w-k7-mt-004	PEM	No	Field Delineated	0.055	0.000
Supply Line	7.69	w-d-mt-009	PEM	No	Desktop	0.357	0.109
Supply Line	7.82	p-d-mt-008	PUB	No	Desktop	0.259	0.000
Supply Line	7.83	w-d-mt-010	PEM	No	Desktop	0.559	0.192
Supply Line	8.03	p-d-mt-009	PUB	No	Desktop	0.122	0.000
Supply Line	8.16	p-k4-mt-001	PUB	No	Field Delineated	2.934	0.773
Supply Line	8.21	w-k4-mt-009	PEM	No	Field Delineated	0.168	0.000
Supply Line	8.39	w-k4-mt-008	PEM	No	Field Delineated	2.391	0.749
Supply Line	8.47	w-k4-mt-007	PEM	No	Field Delineated	0.034	0.000
Supply Line	8.53	w-k4-mt-006	PEM	No	Field Delineated	1.491	0.634
Supply Line	8.69	w-k7-mt-005	PEM	No	Field Delineated	0.359	0.092
Supply Line	8.70	w-k7-mt-006	PEM	No	Field Delineated	0.359	0.000
Supply Line	8.76	w-k7-mt-007	PEM	No	Field Delineated	0.452	0.401
Supply Line	8.88	w-k7-mt-008	PEM	No	Field Delineated	0.664	0.210
Supply Line	9.13	w-k2-mt-011	PEM	No	Field Delineated	1.244	0.455
Supply Line	9.23	w-k2-mt-010	PEM	No	Field Delineated	1.053	0.415
Supply Line	9.29	w-k2-mt-009	PEM	No	Field Delineated	0.335	0.000
Supply Line	9.37	w-k2-mt-008	PEM	No	Field Delineated	1.916	0.366
Supply Line	9.44	w-k2-mt-007	PEM	No	Field Delineated	0.179	0.000
Supply Line	9.51	w-k2-mt-006	PEM	No	Field Delineated	0.134	0.000
Supply Line	9.61	w-k2-mt-005	PEM	No	Field Delineated	0.038	0.034
Supply Line	9.97	w-k2-mt-004	PEM	No	Field Delineated	0.101	0.000
Supply Line	11.01	w-k4-mt-014	PEM	No	Field Delineated	0.118	0.118
Supply Line	11.19	w-k4-mt-015	PEM	No	Field Delineated	0.181	0.000
Supply Line	11.35	w-k4-mt-016	PEM	No	Field Delineated	0.746	0.139
Supply Line	11.41	w-k4-mt-017	PEM	No	Field Delineated	0.054	0.000
Supply Line	11.47	w-k4-mt-018	PEM	No	Field Delineated	1.266	0.151
Supply Line	11.54	w-k4-mt-019	PEM	No	Field Delineated	0.329	0.099
Supply Line	12.12	w-k2-mt-003	PEM	No	Field Delineated	0.255	0.084
Supply Line	12.30	w-k2-mt-025	PEM	No	Field Delineated	0.336	0.172
Supply Line	12.44	w-k2-mt-024	PEM	No	Field Delineated	0.521	0.028
Supply Line	12.56	w-k2-mt-023	PEM	No	Field Delineated	0.471	0.161

Appendix A: Wetland Impacts Table

Pipeline Segment	Milepost	Feature ID	Cowardin Classification	PCN (Yes/No)	Delineation Status	400' Survey Corridor Impact (acre)	Workspace Impact (acre)
Supply Line	12.62	w-k2-mt-022	PEM	No	Field Delineated	0.549	0.301
Supply Line	12.67	w-k2-mt-026	PEM	No	Field Delineated	0.240	0.007
Supply Line	12.75	w-k2-mt-027	PEM	No	Field Delineated	0.564	0.298
Supply Line	13.15	w-k2-mt-028	PEM	No	Field Delineated	0.529	0.000
Supply Line	13.24	w-k2-mt-029	PEM	No	Field Delineated	0.594	0.151
Supply Line	13.36	w-k2-mt-030	PEM	No	Field Delineated	0.146	
Supply Line	13.69	w-k2-mt-031	PEM	No	Field Delineated	0.486	0.165
Supply Line	13.77	w-k2-mt-032	PEM	No	Field Delineated	0.953	0.085
Supply Line	13.86	w-k2-mt-034	PEM	No	Field Delineated	0.466	0.229
Supply Line	14.61	p-k4-mt-002	PUB	No	Field Delineated	0.521	0.207
Supply Line	14.66	w-k4-mt-020	PEM	No	Field Delineated	0.187	0.089
Supply Line	15.29	w-k4-mt-005	PEM	No	Field Delineated	0.059	0.030
Supply Line	15.33	w-k4-mt-004	PEM	No	Field Delineated	0.111	0.000
Supply Line	20.97	w-k1-mt-001	PEM	No	Field Delineated	0.273	0.000
Supply Line	21.83	w-d-mt-011	PEM	No	Desktop	0.266	0.000
Supply Line	21.85	w-d-mt-012	PEM	No	Desktop	0.392	0.000
Supply Line	22.12	w-k4-mt-001	PEM	No	Field Delineated	0.713	0.166
Supply Line	22.33	w-k4-mt-002	PEM	No	Field Delineated	0.108	0.000
Supply Line	22.72	w-k4-mt-003	PEM	No	Field Delineated	0.049	0.002
Supply Line	23.22	p-k8-wi-001	PUB	No	Field Delineated	0.359	0.000
Supply Line	23.25	w-k8-wi-001	PEM	No	Field Delineated	0.368	0.006
Supply Line	23.39	w-k4-wi-009	PEM	No	Field Delineated	0.054	0.000
Supply Line	23.96	w-k4-wi-007	PEM	No	Field Delineated	0.692	0.203
Supply Line	23.98	w-k4-wi-008	PEM	No	Field Delineated	0.060	0.000
Supply Line	24.02	w-k4-wi-006	PEM	No	Field Delineated	0.136	0.128
Supply Line	24.03	w-k4-wi-011	PEM	No	Field Delineated	0.127	0.125
Supply Line	25.58	w-k4-wi-012	PEM	No	Field Delineated	0.640	0.068
Supply Line	25.58	p-k4-wi-001	PUB	No	Field Delineated	0.214	0.032
Supply Line	27.67	w-k3-wi-004	PEM	No	Field Delineated	0.056	0.000
Supply Line	27.95	w-k3-wi-003	PEM	No	Field Delineated	0.160	0.000
Supply Line	28.34	w-k3-wi-006	PEM	No	Field Delineated	0.117	
Supply Line	28.40	w-k3-wi-005	PEM	No	Field Delineated	0.285	0.096
Supply Line	29.44	w-k3-wi-007	PEM	No	Field Delineated	0.069	0.000
Supply Line	30.53	w-k3-wi-008	PEM	No	Field Delineated	1.479	0.391
Supply Line	31.64	w-k3-wi-009	PEM	No	Field Delineated	0.096	0.078
Supply Line	31.82	w-k3-wi-010	PEM	No	Field Delineated	0.360	0.102
Supply Line	32.60	w-k3-wi-013	PEM	No	Field Delineated	1.063	0.570
Supply Line	33.14	w-k3-wi-012	PEM	No	Field Delineated	3.825	1.030
Supply Line	33.73	w-k3-wi-011	PEM	No	Field Delineated	0.360	0.192
Supply Line	33.78	p-k3-wi-002	PUB	No	Field Delineated	0.388	0.000
Supply Line	34.30	w-k3-wi-014	PEM	No	Field Delineated	0.070	0.018
Supply Line	34.97	w-k3-wi-015	PEM	No	Field Delineated	2.051	0.613
Supply Line	35.01	w-k3-wi-016	PEM	No	Field Delineated	0.425	0.003
Supply Line	35.04	w-k3-wi-017	PEM	No	Field Delineated	0.097	0.000
Supply Line	36.41	w-k2-wi-020	PEM	No	Field Delineated	0.283	0.087
Supply Line	36.86	w-k2-wi-021	PEM	No	Field Delineated	0.950	0.366
Supply Line	37.36	w-k4-wi-016	PEM	No	Field Delineated	0.010	0.010
Supply Line	38.09	p-k8-wi-002	PUB	No	Field Delineated	0.427	0.000
Supply Line	38.15	w-k8-wi-006	PEM	No	Field Delineated	0.118	0.071
Supply Line	39.63	w-k4-wi-015	PEM	No	Field Delineated	0.080	0.000
Supply Line	39.67	p-k4-wi-002	PUB	No	Field Delineated	0.447	0.256
Supply Line	42.11	w-k4-wi-014	PEM	No	Field Delineated	0.415	0.036
Supply Line	43.16	w-k4-wi-013	PEM	No	Field Delineated	0.188	0.000
Supply Line	43.70	w-k4-wi-017	PEM	No	Field Delineated	0.615	0.118
Supply Line	43.90	w-k4-wi-018	PEM	No	Field Delineated	2.529	0.917
Supply Line	43.94	w-k4-wi-019	PEM	No	Field Delineated	0.059	0.000
Supply Line	46.03	w-d-wi-001	PEM	No	Desktop	6.672	0.039
Supply Line	47.27	w-k4-wi-020	PEM	No	Field Delineated	0.015	0.000
Supply Line	47.76	w-k3-wi-021	PEM	No	Field Delineated	0.015	0.000
Supply Line	47.99	w-k3-wi-022	PEM	No	Field Delineated	0.072	0.000
Supply Line	48.96	w-d-wi-002	PEM	No	Desktop	0.490	0.151
Supply Line	49.38	p-d-wi-004	PUB	No	Desktop	0.016	0.000
Supply Line	49.39	p-d-wi-005	PUB	No	Desktop	0.017	0.008
Supply Line	49.40	w-d-wi-003	PEM	No	Desktop	3.701	0.017
Supply Line	49.40	p-d-wi-003	PUB	No	Desktop	0.048	0.048
Supply Line	49.40	p-d-wi-002	PUB	No	Desktop	0.015	0.000
Supply Line	49.52	p-d-wi-001	PUB	No	Desktop	0.670	0.000

Appendix A: Wetland Impacts Table

Pipeline Segment	Milepost	Feature ID	Cowardin Classification	PCN (Yes/No)	Delineation Status	400' Survey Corridor Impact (acre)	Workspace Impact (acre)
Supply Line	49.69	w-k3-wi-020	PEM	No	Field Delineated	0.149	0.034
Supply Line	51.23	w-k3-wi-018	PEM	No	Field Delineated	2.431	0.712
Supply Line	51.79	w-k3-wi-019	PEM	No	Field Delineated	0.342	0.069
Supply Line	52.63	p-k3-wi-001	PUB	No	Field Delineated	0.606	0.274
Supply Line	52.64	p-k3-wi-001	PUB	No	Field Delineated	0.202	0.274
Supply Line	52.66	w-k3-wi-001	PEM	No	Field Delineated	0.825	0.088
Supply Line	52.67	w-k3-wi-001	PEM	No	Field Delineated	0.036	0.088
Supply Line	53.71	w-k3-wi-002	PEM	No	Field Delineated	0.847	0.305
Supply Line	54.73	w-k4-wi-005	PEM	No	Field Delineated	1.479	0.439
Supply Line	56.69	w-k4-wi-003	PEM	No	Field Delineated	0.290	0.280
Supply Line	60.33	w-k8-wi-005	PEM	No	Field Delineated	0.079	0.000
Supply Line	61.32	w-k1-wi-003	PEM	No	Field Delineated	0.023	0.023
Supply Line	61.36	w-k1-wi-001	PEM	No	Field Delineated	0.112	0.014
Supply Line	61.55	w-k1-wi-002	PEM	No	Field Delineated	1.411	0.349
Supply Line	65.47	p-d-wi-006	PUB	No	Desktop	0.226	0.060
Supply Line	65.60	p-d-wi-007	PUB	No	Desktop	0.241	0.000
Supply Line	66.44	p-d-wi-008	PUB	No	Desktop	0.057	0.057
Supply Line	67.46	p-d-wi-009	PUB	No	Desktop	0.159	0.000
Supply Line	68.69	p-d-wi-010	PUB	No	Desktop	0.145	0.145
Supply Line	69.03	w-d-wi-004	PEM	No	Desktop	1.721	0.865
Supply Line	69.13	p-d-wi-011	PUB	No	Desktop	0.049	0.000
Supply Line	69.62	w-d-wi-005	PEM	No	Desktop	1.167	0.140
Supply Line	71.64	w-d-wi-006	PEM	No	Desktop	0.726	0.064
Supply Line	72.66	p-d-wi-012	PUB	No	Desktop	0.078	0.000
Supply Line	77.07	w-d-wi-007	PEM	No	Desktop	1.580	0.001
Supply Line	79.63	w-k8-wi-004	PEM	No	Field Delineated	0.052	0.000
Supply Line	80.62	w-d-wi-008	PEM	No	Desktop	1.150	0.010
Supply Line	80.63	w-d-wi-009	PEM	No	Desktop	0.590	0.000
Supply Line	85.59	w-k4-wi-002	PEM	No	Field Delineated	0.383	0.147
Supply Line	85.63	w-d-wi-010	PEM	No	Desktop	0.100	0.100
Supply Line	89.74	w-k4-wi-001	PEM	No	Field Delineated	0.701	0.124
Supply Line	91.47	w-k4-wi-004	PEM	No	Field Delineated	1.313	0.340
Supply Line	92.43	w-k8-wi-003	PEM	No	Field Delineated	0.514	0.082
Supply Line	96.71	w-d-wi-011	PFO	Yes	Desktop	2.167	0.356
Supply Line	96.76	w-d-wi-012	PEM	Yes	Desktop	2.911	0.318
Supply Line	96.78	w-d-wi-013	PFO	Yes	Desktop	1.415	0.111
Supply Line	96.80	w-d-wi-014	PEM	Yes	Desktop	0.886	0.133
Supply Line	103.72	w-k3-mk-022	PEM	No	Field Delineated	0.137	0.000
Supply Line	103.88	w-k3-mk-021	PEM	No	Field Delineated	0.355	0.065
Supply Line	104.34	w-k2-mk-001	PEM	No	Field Delineated	0.196	0.000
Supply Line	107.75	w-k2-mk-003	PEM	No	Field Delineated	0.477	0.159
Supply Line	108.26	w-k8-mk-001	PEM	No	Field Delineated	0.218	0.108
Supply Line	108.48	w-k3-mk-018	PEM	No	Field Delineated	0.065	0.000
Supply Line	108.63	w-k3-mk-020	PEM	No	Field Delineated	0.146	0.017
Supply Line	108.80	p-k3-mk-003	PUB	No	Field Delineated	0.523	0.000
Supply Line	108.90	w-k3-mk-019	PEM	No	Field Delineated	0.391	0.000
Supply Line	112.87	w-d-mk-001	PEM	No	Desktop	1.214	0.308
Supply Line	113.26	p-d-mk-001	PUB	No	Desktop	0.132	0.000
Supply Line	116.16	w-k8-mk-004	PEM	No	Field Delineated	0.096	0.000
Supply Line	116.45	w-k8-mk-003	PEM	No	Field Delineated	0.653	0.000
Supply Line	116.57	w-k8-mk-002	PEM	No	Field Delineated	0.761	0.173
Supply Line	119.31	w-k2-mk-002	PEM	No	Field Delineated	0.094	0.000
Supply Line	121.13	w-d-mk-002	PEM	No	Desktop	0.771	0.337
Supply Line	124.47	w-d-mk-003	PEM	No	Desktop	2.831	0.535
Supply Line	128.61	w-k3-mk-017	PEM	No	Field Delineated	2.100	0.440
Supply Line	137.77	w-k2-mk-006	PEM	No	Field Delineated	0.784	0.188
Supply Line	138.22	w-k2-mk-005	PEM	No	Field Delineated	0.023	0.023
Supply Line	140.74	w-k3-mk-016	PEM	No	Field Delineated	0.200	0.087
Supply Line	140.86	p-k3-mk-002	PUB	No	Field Delineated	0.067	0.001
Supply Line	140.87	w-k3-mk-015	PEM	No	Field Delineated	0.067	0.000
Supply Line	141.41	w-k3-mk-014	PEM	No	Field Delineated	0.088	0.079
Supply Line	142.52	w-k3-mk-013	PEM	No	Field Delineated	3.112	0.955
Supply Line	142.60	w-k3-mk-012	PEM	No	Field Delineated	0.670	0.067
Supply Line	142.69	w-k3-mk-011	PEM	No	Field Delineated	1.824	0.820
Supply Line	144.27	w-k3-mk-004	PEM	No	Field Delineated	0.494	0.095
Supply Line	144.71	w-k3-mk-003	PEM	No	Field Delineated	0.078	0.022
Supply Line	145.15	w-k3-mk-002	PEM	No	Field Delineated	0.313	0.098

Appendix A: Wetland Impacts Table

Pipeline Segment	Milepost	Feature ID	Cowardin Classification	PCN (Yes/No)	Delineation Status	400' Survey Corridor Impact (acre)	Workspace Impact (acre)
Supply Line	145.75	w-k3-mk-001	PEM	No	Field Delineated	0.048	0.000
Supply Line	147.66	w-k8-mk-006	PEM	No	Field Delineated	0.107	0.041
Supply Line	147.66	w-d-mk-004	PEM	No	Desktop	0.705	0.279
Supply Line	147.73	w-k8-mk-005	PEM	No	Field Delineated	0.747	0.277
Supply Line	148.58	w-k2-mk-004	PEM	No	Field Delineated	0.068	0.000
Mainline	0.37	p-d-mk-002	PUB	No	Desktop	0.178	0.132
Mainline	0.40	p-d-mk-003	PUB	No	Desktop	0.068	0.020
Mainline	0.53	p-d-mk-004	PUB	No	Desktop	0.079	0.020
Mainline	2.29	w-k3-mk-005	PEM	No	Field Delineated	0.055	0.007
Mainline	3.93	w-k3-mk-006	PEM	No	Field Delineated	1.023	0.254
Mainline	3.95	p-k3-mk-001	PUB	No	Field Delineated	0.098	0.000
Mainline	4.77	p-d-mk-005	PUB	No	Desktop	0.239	0.000
Mainline	5.10	w-k3-mk-007	PEM	No	Field Delineated	0.159	0.028
Mainline	5.10	w-d-mk-005	PEM	No	Desktop	0.105	0.000
Mainline	5.72	w-k3-mk-008	PEM	No	Field Delineated	0.091	0.021
Mainline	5.97	w-k3-mk-010	PEM	No	Field Delineated	0.046	0.000
Mainline	6.38	w-k3-mk-009	PEM	No	Field Delineated	1.242	0.283
Mainline	6.63	p-d-mk-006	PUB	No	Desktop	0.176	0.000
Mainline	12.00	w-k3-du-002	PEM	No	Field Delineated	0.087	0.000
Mainline	12.08	w-k3-du-003	PEM	No	Field Delineated	0.072	0.000
Mainline	12.36	w-k3-du-004	PEM	No	Field Delineated	0.045	0.000
Mainline	16.29	p-d-du-001	PUB	No	Desktop	0.026	0.000
Mainline	16.54	w-d-du-001	PFO	Yes	Desktop	5.947	0.111
Mainline	16.55	w-d-du-002	PEM	Yes	Desktop	0.804	0.077
Mainline	16.66	w-d-du-003	PFO	Yes	Desktop	2.966	0.368
Mainline	19.40	p-d-du-002	PUB	No	Desktop	0.034	0.000
Mainline	19.55	w-d-du-004	PEM	No	Desktop	0.180	0.129
Mainline	27.01	w-d-du-005	PEM	No	Desktop	0.706	0.151
Mainline	27.03	w-k1-du-004	PEM	No	Field Delineated	0.357	
Mainline	36.56	w-d-du-006	PEM	No	Desktop	0.227	0.092
Mainline	37.67	w-k1-du-002	PEM	No	Field Delineated	0.203	0.023
Mainline	37.88	w-k1-du-001	PEM	No	Field Delineated	2.520	0.691
Mainline	40.80	w-k3-du-007	PEM	No	Field Delineated	0.184	0.128
Mainline	41.01	w-k3-du-006	PEM	No	Field Delineated	0.466	0.148
Mainline	43.96	w-k1-du-003	PEM	No	Field Delineated	1.113	0.387
Mainline	44.97	w-k3-du-008	PEM	No	Field Delineated	0.224	0.006
Mainline	46.37	w-k3-du-009	PEM	No	Field Delineated	0.600	0.000
Mainline	46.96	w-k3-du-010	PEM	No	Field Delineated	0.183	0.000
Mainline	48.23	w-d-du-007	PEM	No	Desktop	0.044	0.044
Mainline	50.36	w-k3-du-005	PEM	No	Field Delineated	0.989	0.181
Mainline	52.68	w-m1-du-006	PEM	No	Field Delineated	0.374	0.117
Mainline	53.71	w-m1-du-005	PEM	No	Field Delineated	0.046	0.000
Mainline	54.14	w-m1-du-001	PEM	No	Field Delineated	0.274	0.049
Mainline	57.81	w-k3-du-012	PEM	No	Field Delineated	0.178	0.115
Mainline	57.84	w-k3-du-011	PEM	No	Field Delineated	0.628	0.196
Mainline	59.94	w-k3-du-001	PEM	No	Field Delineated	0.422	0.101
Mainline	62.79	w-k7-me-002	PEM	No	Field Delineated	0.238	0.026
Mainline	66.46	w-d-me-001	PEM	No	Desktop	0.032	0.000
Mainline	68.79	w-k4-me-003	PEM	No	Field Delineated	0.622	0.141
Mainline	68.98	w-k4-me-002	PEM	No	Field Delineated	0.226	0.051
Mainline	69.24	w-k4-me-001	PEM	No	Field Delineated	0.145	0.066
Mainline	69.25	w-k4-me-005	PEM	No	Field Delineated	0.027	0.000
Mainline	69.26	w-k4-me-001	PEM	No	Field Delineated	0.066	0.066
Mainline	69.34	w-k3-me-020	PEM	No	Field Delineated	0.173	0.034
Mainline	69.49	w-k3-me-022	PEM	No	Field Delineated	0.346	0.114
Mainline	69.61	w-k3-me-023	PEM	No	Field Delineated	0.297	0.210
Mainline	69.66	w-k3-me-024	PEM	No	Field Delineated	0.413	0.145
Mainline	71.56	w-k4-me-006	PEM	No	Field Delineated	0.090	0.032
Mainline	72.92	w-k3-me-025	PEM	No	Field Delineated	0.229	0.000
Mainline	73.14	w-k3-me-015	PEM	No	Field Delineated	0.212	0.046
Mainline	73.23	w-k3-me-016	PEM	No	Field Delineated	0.824	0.211
Mainline	74.13	w-k3-me-014	PEM	No	Field Delineated	0.183	0.000
Mainline	74.28	w-k3-me-013	PEM	No	Field Delineated	1.096	0.265
Mainline	74.74	w-k3-me-012	PEM	No	Field Delineated	0.798	0.216
Mainline	75.58	w-k3-me-008	PEM	No	Field Delineated	0.118	0.028
Mainline	75.79	w-k3-me-009	PEM	No	Field Delineated	0.231	0.070
Mainline	79.03	w-k3-me-006	PEM	No	Field Delineated	0.558	0.240

Appendix A: Wetland Impacts Table

Pipeline Segment	Milepost	Feature ID	Cowardin Classification	PCN (Yes/No)	Delineation Status	400' Survey Corridor Impact (acre)	Workspace Impact (acre)
Mainline	79.65	w-k3-me-005	PEM	No	Field Delineated	0.593	0.069
Mainline	79.75	w-k3-me-004	PEM	No	Field Delineated	0.454	0.141
Mainline	79.76	w-k3-me-007	PEM	No	Field Delineated	0.033	0.000
Mainline	80.22	w-k3-me-003	PEM	No	Field Delineated	0.160	0.049
Mainline	80.38	w-k3-me-002	PEM	No	Field Delineated	0.089	0.035
Mainline	80.52	w-k3-me-001	PEM	No	Field Delineated	0.007	0.000
Mainline	83.89	w-k2-me-002	PEM	No	Field Delineated	0.014	0.004
Mainline	83.90	w-k2-me-001	PEM	No	Field Delineated	0.022	0.000
Mainline	84.27	w-m1-me-001	PEM	No	Field Delineated	2.082	0.691
Mainline	84.57	w-m1-me-008	PEM	No	Field Delineated	0.053	0.000
Mainline	84.69	w-m1-me-009	PEM	No	Field Delineated	0.028	0.000
Mainline	84.92	w-m1-me-007	PEM	No	Field Delineated	0.096	0.000
Mainline	84.92	w-m1-me-010	PEM	No	Field Delineated	0.009	0.000
Mainline	85.26	p-m1-me-001	PUB	No	Field Delineated	0.075	0.000
Mainline	85.29	w-m1-me-011	PEM	No	Field Delineated	0.155	0.064
Mainline	85.88	w-m1-me-014	PEM	No	Field Delineated	0.190	0.000
Mainline	85.92	w-m1-me-013	PEM	No	Field Delineated	0.124	0.083
Mainline	85.96	w-m1-me-012	PEM	No	Field Delineated	0.378	0.089
Mainline	85.99	p-m1-me-002	PUB	No	Field Delineated	0.031	0.000
Mainline	86.05	w-m1-me-016	PEM	No	Field Delineated	0.140	0.000
Mainline	86.94	w-m1-me-015	PEM	No	Field Delineated	1.807	0.387
Mainline	87.05	w-d-me-002	PEM	No	Desktop	5.102	1.284
Mainline	87.65	w-k3-me-017	PEM	No	Field Delineated	0.170	0.009
Mainline	88.00	w-d-me-003	PEM	No	Desktop	0.856	0.107
Mainline	88.64	w-k4-me-007	PEM	No	Field Delineated	0.036	0.031
Mainline	89.79	w-k1-me-001	PEM	No	Field Delineated	0.051	0.000
Mainline	91.23	w-m1-mo-069	PEM	No	Field Delineated	1.235	0.218
Mainline	91.34	w-m1-mo-068	PEM	No	Field Delineated	0.823	0.000
Mainline	92.76	w-d-mo-001	PEM	No	Desktop	1.135	0.000
Mainline	93.00	w-d-mo-002	PUB	No	Desktop	0.053	0.000
Mainline	98.12	w-d-mo-005	PEM	No	Desktop	0.226	0.074
Mainline	98.13	w-d-mo-003	PEM	No	Desktop	0.238	0.090
Mainline	98.13	w-d-mo-004	PEM	No	Desktop	0.049	0.049
Mainline	98.15	w-m1-mo-064	PEM	No	Field Delineated	0.230	0.151
Mainline	101.35	w-m1-mo-003	PEM	No	Field Delineated	0.265	0.010
Mainline	102.28	w-m1-mo-005	PEM	No	Field Delineated	0.047	0.000
Mainline	102.30	w-m1-mo-004	PEM	No	Field Delineated	0.198	0.075
Mainline	102.38	w-m1-mo-006	PEM	No	Field Delineated	0.007	0.000
Mainline	103.22	w-m1-mo-007	PEM	No	Field Delineated	0.093	0.014
Mainline	103.33	w-m1-mo-008	PEM	No	Field Delineated	0.139	0.091
Mainline	103.62	w-m1-mo-009	PEM	No	Field Delineated	0.045	0.000
Mainline	104.32	w-m1-mo-010	PEM	No	Field Delineated	0.271	0.096
Mainline	106.62	w-m1-mo-011	PEM	No	Field Delineated	0.284	0.147
Mainline	107.59	w-m1-mo-012	PEM	No	Field Delineated	1.710	0.496
Mainline	109.23	w-m1-mo-013	PEM	No	Field Delineated	0.304	0.000
Mainline	110.72	w-m1-mo-067	PEM	No	Field Delineated	0.185	0.000
Mainline	111.89	w-k3-mo-015	PEM	No	Field Delineated	1.645	0.270
Mainline	112.08	w-k3-mo-014	PEM	No	Field Delineated	0.024	0.000
Mainline	114.33	w-m1-mo-065	PEM	No	Field Delineated	0.810	0.121
Mainline	114.54	w-m1-mo-066	PEM	No	Field Delineated	0.275	0.041
Mainline	117.43	w-m1-mo-014	PEM	No	Field Delineated	0.249	0.012
Mainline	117.62	w-m1-mo-015	PEM	No	Field Delineated	0.176	0.038
Mainline	117.62	p-m1-mo-002	PUB	No	Field Delineated	0.010	0.000
Mainline	117.67	w-m1-mo-016	PEM	No	Field Delineated	0.010	0.000
Mainline	117.69	p-m1-mo-001	PUB	No	Field Delineated	0.181	0.000
Mainline	121.00	w-m1-mo-018	PEM	No	Field Delineated	0.786	0.007
Mainline	121.08	w-m1-mo-017	PEM	No	Field Delineated	1.503	0.350
Mainline	121.15	w-m1-mo-019	PEM	No	Field Delineated	1.130	0.088
Mainline	121.67	w-m1-mo-020	PEM	No	Field Delineated	0.058	0.000
Mainline	121.68	w-m1-mo-021	PEM	No	Field Delineated	0.025	0.000
Mainline	121.82	w-m1-mo-022	PEM	No	Field Delineated	0.672	0.193
Mainline	121.84	p-m1-mo-004	PUB	No	Field Delineated	0.051	0.000
Mainline	121.86	w-m1-mo-023	PEM	No	Field Delineated	0.238	0.113
Mainline	121.86	p-m1-mo-005	PUB	No	Field Delineated	0.004	0.000
Mainline	121.87	p-m1-mo-003	PUB	No	Field Delineated	0.028	0.000
Mainline	122.09	w-m1-mo-024	PEM	No	Field Delineated	2.638	0.605
Mainline	122.22	w-m1-mo-025	PEM	No	Field Delineated	0.041	0.004

Appendix A: Wetland Impacts Table

Pipeline Segment	Milepost	Feature ID	Cowardin Classification	PCN (Yes/No)	Delineation Status	400' Survey Corridor Impact (acre)	Workspace Impact (acre)
Mainline	124.87	w-k9-mo-001	PEM	No	Field Delineated	0.023	0.000
Mainline	124.94	w-k9-mo-002	PEM	No	Field Delineated	0.133	0.000
Mainline	125.01	w-k9-mo-003	PEM	No	Field Delineated	0.176	0.067
Mainline	125.82	w-k9-mo-004	PEM	No	Field Delineated	0.181	0.000
Mainline	125.86	p-k9-mo-001	PUB	No	Field Delineated	0.122	0.000
Mainline	128.23	p-d-mo-001	PUB	No	Desktop	0.452	0.133
Mainline	135.02	w-k3-mo-016	PEM	No	Field Delineated	0.046	0.000
Mainline	137.47	w-m1-mo-030	PEM	No	Field Delineated	0.014	0.000
Mainline	137.54	w-m1-mo-027	PEM	No	Field Delineated	0.018	0.000
Mainline	137.57	w-m1-mo-031	PEM	No	Field Delineated	0.182	0.044
Mainline	137.68	w-m1-mo-028	PEM	No	Field Delineated	0.112	0.112
Mainline	137.82	w-m1-mo-029	PEM	No	Field Delineated	0.995	0.238
Mainline	137.88	w-m1-mo-041	PEM	No	Field Delineated	0.028	0.000
Mainline	137.89	w-m1-mo-033	PEM	No	Field Delineated	0.079	0.061
Mainline	137.89	w-m1-mo-040	PEM	No	Field Delineated	0.035	0.035
Mainline	137.89	w-m1-mo-039	PEM	No	Field Delineated	0.048	0.000
Mainline	137.91	w-m1-mo-038	PEM	No	Field Delineated	0.033	0.000
Mainline	137.93	w-m1-mo-034	PEM	No	Field Delineated	0.013	0.013
Mainline	137.94	w-m1-mo-036	PEM	No	Field Delineated	0.018	0.018
Mainline	137.94	w-m1-mo-037	PEM	No	Field Delineated	0.013	0.000
Mainline	137.95	w-m1-mo-035	PEM	No	Field Delineated	0.014	0.000
Mainline	137.95	w-m1-mo-042	PEM	No	Field Delineated	0.014	0.000
Mainline	137.96	w-m1-mo-044	PEM	No	Field Delineated	0.017	0.017
Mainline	137.96	w-m1-mo-046	PEM	No	Field Delineated	0.027	0.000
Mainline	137.97	w-m1-mo-043	PEM	No	Field Delineated	0.000	0.000
Mainline	137.98	w-m1-mo-045	PEM	No	Field Delineated	0.017	0.000
Mainline	138.04	w-m1-mo-032	PEM	No	Field Delineated	0.491	0.067
Mainline	138.16	w-m1-mo-048	PEM	No	Field Delineated	0.078	0.044
Mainline	138.18	w-m1-mo-049	PEM	No	Field Delineated	0.067	0.000
Mainline	139.30	w-m1-mo-050	PEM	No	Field Delineated	3.053	0.786
Mainline	139.50	w-m1-mo-051	PEM	No	Field Delineated	0.048	0.003
Mainline	140.02	w-k3-mo-017	PEM	No	Field Delineated	0.079	0.000
Mainline	140.23	w-m1-mo-061	PEM	No	Field Delineated	0.138	0.034
Mainline	140.51	w-m1-mo-060	PEM	No	Field Delineated	0.027	0.027
Mainline	140.55	w-m1-mo-059	PEM	No	Field Delineated	0.215	0.000
Mainline	140.63	w-m1-mo-058	PEM	No	Field Delineated	0.013	0.010
Mainline	140.65	w-m1-mo-057	PEM	No	Field Delineated	0.024	0.024
Mainline	140.75	w-m1-mo-056	PEM	No	Field Delineated	0.020	0.020
Mainline	140.76	p-m1-mo-006	PUB	No	Field Delineated	0.007	0.000
Mainline	140.76	w-m1-mo-055	PEM	No	Field Delineated	0.021	0.000
Mainline	140.79	w-m1-mo-054	PEM	No	Field Delineated	0.021	0.000
Mainline	140.81	w-m1-mo-053	PEM	No	Field Delineated	0.049	0.000
Mainline	140.89	w-m1-mo-052	PEM	No	Field Delineated	0.056	0.000
Mainline	140.95	w-k3-mo-006	PEM	No	Field Delineated	0.369	0.081
Mainline	141.21	w-k3-mo-007	PEM	No	Field Delineated	0.075	0.037
Mainline	141.22	w-k3-mo-008	PEM	No	Field Delineated	0.245	0.000
Mainline	141.24	w-k3-mo-009	PEM	No	Field Delineated	0.046	0.046
Mainline	141.33	w-k3-mo-010	PEM	No	Field Delineated	0.313	0.152
Mainline	141.36	w-k3-mo-011	PEM	No	Field Delineated	0.200	0.000
Mainline	141.72	w-k3-mo-012	PEM	No	Field Delineated	0.158	0.010
Mainline	144.65	w-k1-mo-001	PEM	No	Field Delineated	1.251	0.255
Mainline	145.40	w-k2-mo-001	PEM	No	Field Delineated	0.445	0.075
Mainline	147.88	w-k4-mo-004	PEM	No	Field Delineated	0.017	0.011
Mainline	152.60	p-k3-mo-001	PUB	No	Field Delineated	0.345	0.000
Mainline	152.62	w-k3-mo-004	PEM	No	Field Delineated	0.053	0.038
Mainline	152.80	w-k3-mo-003	PEM	No	Field Delineated	0.015	
Mainline	153.04	w-k3-mo-002	PEM	No	Field Delineated	1.624	0.513
Mainline	154.92	w-k4-mo-001	PEM	No	Field Delineated	0.008	0.007
Mainline	155.39	w-k4-mo-002	PEM	No	Field Delineated	0.100	0.084
Mainline	155.88	w-k4-mo-003	PEM	No	Field Delineated	0.497	0.183
Mainline	155.88	p-k4-mo-001	PUB	No	Field Delineated	0.170	0.018
Mainline	159.45	w-k3-mo-001	PEM	No	Field Delineated	0.357	0.033
Mainline	162.18	w-m1-mo-002	PEM	No	Field Delineated	0.016	0.000
Mainline	168.69	w-k3-em-001	PEM	No	Field Delineated	1.757	0.413
Mainline	168.90	w-k3-em-002	PEM	No	Field Delineated	0.142	0.037
Mainline	170.70	w-k2-em-001	PEM	No	Field Delineated	0.210	0.011
Mainline	175.66	w-k3-em-004	PEM	No	Field Delineated	0.179	0.042

Appendix A: Wetland Impacts Table

Pipeline Segment	Milepost	Feature ID	Cowardin Classification	PCN (Yes/No)	Delineation Status	400' Survey Corridor Impact (acre)	Workspace Impact (acre)
Mainline	180.47	w-d-em-001	PEM	No	Desktop	0.404	0.177
Mainline	182.02	w-d-em-002	PEM	No	Desktop	1.051	0.003
Mainline	182.10	w-d-em-003	PEM	No	Desktop	0.609	0.245
Mainline	183.64	w-k2-em-002	PEM	No	Field Delineated	0.663	0.101
Mainline	185.32	w-k2-em-003	PEM	No	Field Delineated	1.280	0.316
Mainline	185.48	w-k2-em-004	PEM	No	Field Delineated	2.158	0.217
Mainline	185.58	w-k1-em-003	PEM	No	Field Delineated	0.576	0.101
Mainline	185.62	w-k1-em-004	PEM	No	Field Delineated	0.358	0.000
Mainline	185.66	w-k9-em-002	PEM	No	Field Delineated	0.229	0.000
Mainline	185.74	w-k9-em-001	PEM	No	Field Delineated	0.578	0.013
Mainline	187.04	w-k1-em-002	PEM	No	Field Delineated	0.140	0.044
Mainline	187.26	w-k3-em-008	PEM	No	Field Delineated	5.700	1.006
Mainline	187.56	w-k3-em-009	PEM	No	Field Delineated	0.264	0.112
Mainline	187.59	w-k3-em-010	PEM	No	Field Delineated	0.706	0.381
Mainline	187.81	w-k3-em-011	PEM	No	Field Delineated	1.297	0.087
Mainline	191.40	w-k1-em-005	PEM	No	Field Delineated	0.631	0.021
Mainline	191.75	w-k2-em-005	PEM	No	Field Delineated	0.382	0.069
Mainline	195.88	p-d-em-001	PUB	No	Desktop	0.036	0.004
Mainline	198.43	w-k1-em-006	PEM	No	Field Delineated	0.026	0.000
Mainline	198.64	w-k1-em-007	PEM	No	Field Delineated	0.027	0.000
Mainline	198.80	w-d-em-004	PEM	No	Desktop	0.405	0.209
Mainline	199.40	p-d-em-002	PUB	No	Desktop	0.132	0.009
Mainline	200.25	p-d-em-003	PUB	No	Desktop	0.269	0.088
Mainline	200.37	w-d-em-005	PEM	No	Desktop	0.351	0.004
Mainline	200.81	w-k3-em-005	PEM	No	Field Delineated	0.082	0.000
Mainline	200.85	p-k3-em-001	PEM	No	Field Delineated	0.254	0.023
Mainline	200.85	w-k3-em-006	PEM	No	Field Delineated	0.066	0.026
Mainline	202.22	w-k2-em-007	PEM	No	Field Delineated	0.036	0.000
Mainline	202.23	p-d-em-004	PUB	No	Desktop	0.014	0.000
Mainline	202.83	w-k2-em-006	PEM	No	Field Delineated	0.055	0.000
Mainline	204.16	w-k7-em-001	PEM	No	Field Delineated	0.115	0.000
Mainline	204.22	w-k7-em-002	PEM	No	Field Delineated	0.088	0.000
Mainline	204.81	w-d-em-006	PEM	Yes	Desktop	2.954	0.709
Mainline	204.99	w-d-em-007	PEM	Yes	Desktop	8.620	2.157
Mainline	206.00	p-d-em-005	PUB	No	Desktop	0.419	0.049

Appendix B
Waterbody Impacts Table

Appendix B: Waterbody Impacts Table

Pipeline Segment	Milepost	Feature ID	Cowardin Classification	PCN (Yes/No)	Delineation Status	400' Survey Corridor Impact (acre)	Workspace Impact (acre)
Supply Line	1.91	s-k3-mt-001	R4SB	No	Field Delineated	0.022	0.005
Supply Line	2.54	s-k2-mt-001	R4SB	No	Field Delineated	0.051	0.011
Supply Line	3.15	s-k2-mt-002	R4SB	No	Field Delineated	0.030	0.002
Supply Line	7.88	s-d-mt-001	R4SB	No	Desktop	0.128	0.056
Supply Line	13.67	s-k2-mt-003	R3UB	No	Field Delineated	0.006	0.003
Supply Line	17.10	s-k1-mt-001	R6	No	Field Delineated	0.123	0.018
Supply Line	19.06	s-d-mt-002	R2UB	No	Desktop	1.195	0.163
Supply Line	27.65	s-k3-wi-003	R4SB	No	Field Delineated	0.385	0.092
Supply Line	28.34	s-k3-wi-004	R4SB	No	Field Delineated	0.015	0.000
Supply Line	31.69	s-k3-wi-005	R4SB	No	Field Delineated	0.068	0.000
Supply Line	34.29	s-k3-wi-006	R4SB	No	Field Delineated	0.332	0.082
Supply Line	34.29	s-k3-wi-006	R4SB	No	Field Delineated	0.000	0.082
Supply Line	35.17	s-k2-wi-004	R3UB	No	Field Delineated	0.412	0.071
Supply Line	35.48	s-k2-wi-003	R3UB	No	Field Delineated	0.397	0.115
Supply Line	35.62	s-k2-wi-001	R3UB	No	Field Delineated	0.005	0.005
Supply Line	35.75	s-k2-wi-002	R3UB	No	Field Delineated	1.014	0.214
Supply Line	36.99	s-k2-wi-005	R4SB	No	Field Delineated	0.327	0.132
Supply Line	48.05	s-k3-wi-008	R4SB	No	Field Delineated	0.019	0.007
Supply Line	48.05	s-d-wi-001	R4SB	No	Desktop	0.050	0.001
Supply Line	51.20	s-k3-wi-007	R4SB	No	Field Delineated	0.006	0.002
Supply Line	60.81	s-k1-wi-001	R2UB	No	Field Delineated	1.124	0.136
Supply Line	61.46	s-k1-wi-002	R6	Yes	Field Delineated	0.210	0.034
Supply Line	61.53	s-k1-wi-003	R2UB	No	Field Delineated	0.469	0.127
Supply Line	66.43	s-d-wi-002	R6	No	Desktop	0.018	0.003
Supply Line	72.72	s-d-wi-003	R6	No	Desktop	0.011	0.000
Supply Line	72.84	s-d-wi-004	R6	No	Desktop	0.064	0.014
Supply Line	78.10	s-d-wi-005	R6	No	Desktop	0.023	0.000
Supply Line	84.02	s-k8-wi-001	R3UB	No	Field Delineated	0.299	0.074
Supply Line	89.16	s-k4-wi-001	R2UB	No	Field Delineated	0.169	0.056
Supply Line	91.01	s-k4-wi-003	R3UB	No	Field Delineated	0.334	0.120
Supply Line	92.59	s-d-wi-006	R6	No	Desktop	0.020	0.011
Supply Line	93.84	s-d-wi-007	R2UB	No	Desktop	0.222	0.048
Supply Line	94.72	s-k8-wi-002	R3UB	No	Field Delineated	0.461	0.163
Supply Line	96.98	s-k2-mk-001	R2UB	Yes	Field Delineated	4.281	0.531
Supply Line	97.03	s-k2-mk-003	R4SB	No	Field Delineated	0.001	0.000
Supply Line	97.07	s-k2-mk-002	R4SB	No	Field Delineated	0.277	0.051
Supply Line	97.78	s-d-mk-001	R6	No	Desktop	0.036	0.011
Supply Line	104.78	s-k2-mk-004	R4SB	No	Field Delineated	0.115	0.025
Supply Line	108.49	s-k3-mk-015	R6	No	Field Delineated	0.007	0.002
Supply Line	113.17	s-d-mk-002	R6	No	Desktop	0.068	0.021
Supply Line	113.27	s-d-mk-003	R6	No	Desktop	0.030	0.000
Supply Line	114.87	s-k2-mk-007	R4SB	No	Field Delineated	0.068	0.018
Supply Line	114.94	s-k2-mk-008	R4SB	No	Field Delineated	0.013	0.003
Supply Line	116.13	s-k2-mk-006	R4SB	No	Field Delineated	0.026	0.009
Supply Line	119.25	s-k2-mk-005	R3UB	No	Field Delineated	0.541	0.093
Supply Line	124.73	s-k3-mk-011	R3UB	No	Field Delineated	0.271	0.068
Supply Line	124.99	s-k3-mk-012	R6	No	Field Delineated	0.019	0.007
Supply Line	128.72	s-k3-mk-013	R3UB	No	Field Delineated	2.061	0.213
Supply Line	129.59	s-d-mk-005	R6	No	Desktop	0.094	0.026
Supply Line	130.73	s-d-mk-006	R6	No	Desktop	0.018	0.002
Supply Line	136.52	s-d-mk-007	R4SB	No	Desktop	0.116	0.028
Supply Line	137.73	s-k2-mk-011	R4SB	No	Field Delineated	0.096	0.024
Supply Line	138.65	s-k2-mk-010	R4SB	No	Field Delineated	0.004	0.000
Supply Line	140.85	s-k3-mk-009	R2UB	No	Field Delineated	0.332	0.099
Supply Line	140.85	s-k3-mk-010	R4SB	No	Field Delineated	0.001	0.001
Supply Line	141.27	s-k3-mk-007	R3UB	No	Field Delineated	0.100	0.000
Supply Line	141.27	s-k3-mk-006	R4SB	No	Field Delineated	0.548	0.000
Supply Line	141.48	s-k3-mk-005	R2US	No	Field Delineated	3.069	0.625
Supply Line	141.59	s-d-mk-008	R4SB	No	Desktop	0.371	0.046
Supply Line	141.64	s-d-mk-009	R4SB	No	Desktop	0.267	0.064
Supply Line	142.07	s-d-mk-010	R4SB	No	Desktop	0.401	0.079
Supply Line	142.61	s-k3-mk-004	R3UB	No	Field Delineated	0.492	0.202
Supply Line	144.87	s-k3-mk-003	R4SB	No	Field Delineated	0.023	0.005
Supply Line	144.96	s-k3-mk-002	R4SB	No	Field Delineated	0.026	0.007
Supply Line	145.57	s-k3-mk-001	R3UB	No	Field Delineated	0.038	0.007

Appendix B: Waterbody Impacts Table

Pipeline Segment	Milepost	Feature ID	Cowardin Classification	PCN (Yes/No)	Delineation Status	400' Survey Corridor Impact (acre)	Workspace Impact (acre)
Mainline	8.98	s-d-mk-011	R6	No	Desktop	0.110	0.031
Mainline	10.81	s-k3-du-006	R4SB	No	Field Delineated	0.005	0.000
Mainline	11.14	s-k3-du-007	R3UB	No	Field Delineated	0.396	0.089
Mainline	12.40	s-k3-du-010	R2UB	No	Field Delineated	0.045	0.029
Mainline	16.60	s-d-du-001	R2UB	No	Desktop	2.499	0.312
Mainline	26.99	s-d-du-002	R3UB	No	Desktop	0.833	0.114
Mainline	27.09	s-k1-du-005	R3UB	No	Field Delineated	0.067	0.000
Mainline	27.73	s-k1-du-004	R3UB	No	Field Delineated	0.844	0.229
Mainline	28.05	s-k3-du-017	R6	No	Field Delineated	0.003	0.000
Mainline	28.06	s-k1-du-003	R4SB	No	Field Delineated	0.031	0.003
Mainline	28.26	s-k3-du-018	R6	No	Field Delineated	0.004	0.000
Mainline	28.40	s-k3-du-019	R4SB	No	Field Delineated	0.045	0.010
Mainline	29.44	s-k1-du-006	R4SB	No	Field Delineated	0.005	0.000
Mainline	31.80	s-d-du-003	R6	No	Desktop	0.070	0.000
Mainline	31.87	s-d-du-005	R6	No	Desktop	0.028	0.000
Mainline	31.88	s-d-du-004	R4SB	No	Desktop	0.074	0.019
Mainline	33.89	s-d-du-006	R6	No	Desktop	0.040	0.010
Mainline	37.64	s-k1-du-002	R4SB	No	Field Delineated	0.214	0.000
Mainline	37.72	s-k1-du-001	R4SB	No	Field Delineated	0.392	0.056
Mainline	41.14	s-k3-du-011	R4SB	No	Field Delineated	0.314	0.165
Mainline	45.86	s-k3-du-013	R3UB	Yes	Field Delineated	3.128	0.830
Mainline	46.02	s-k3-du-014	R4SB	No	Field Delineated	0.385	0.097
Mainline	47.53	s-d-du-007	R6	No	Desktop	0.042	0.011
Mainline	48.93	s-d-du-008	R4SB	No	Desktop	0.647	0.124
Mainline	52.68	s-m1-du-006	R4SB	No	Field Delineated	0.056	0.011
Mainline	52.68	s-m1-du-005	R4SB	No	Field Delineated	0.039	0.000
Mainline	54.15	s-m1-du-001	R4SB	No	Field Delineated	0.216	0.077
Mainline	54.63	s-k7-du-001	R4SB	No	Field Delineated	0.325	0.134
Mainline	56.06	s-m1-du-002	R2UB	No	Field Delineated	0.202	0.047
Mainline	56.08	s-d-du-009	R2UB	No	Desktop	0.603	0.143
Mainline	59.00	s-k3-du-015	R3UB	No	Field Delineated	0.548	0.065
Mainline	59.21	s-k3-du-016	R3UB	No	Field Delineated	0.625	0.190
Mainline	60.35	s-k3-du-002	R2US	No	Field Delineated	0.409	0.069
Mainline	61.38	s-k3-du-003	R3UB	No	Field Delineated	0.240	0.027
Mainline	61.74	s-k3-du-004	R3UB	No	Field Delineated	0.096	0.000
Mainline	61.78	s-k3-du-005	R2US	No	Field Delineated	0.399	0.084
Mainline	63.45	s-k4-me-003	R3UB	No	Field Delineated	0.098	0.018
Mainline	63.49	s-k4-me-002	R3UB	No	Field Delineated	0.019	0.005
Mainline	63.67	s-k7-me-002	R4SB	No	Field Delineated	0.041	0.016
Mainline	70.61	s-k3-me-016	R6	No	Field Delineated	0.016	0.000
Mainline	72.18	s-k3-me-017	R4SB	No	Field Delineated	0.350	0.067
Mainline	73.02	s-k4-me-006	R3UB	No	Field Delineated	0.023	0.000
Mainline	73.51	s-k3-me-007	R2UB	No	Field Delineated	1.053	0.133
Mainline	74.00	s-k3-me-006	R2UB	No	Field Delineated	0.099	0.000
Mainline	75.60	s-k3-me-003	R2UB	No	Field Delineated	0.001	0.000
Mainline	76.19	s-k3-me-012	R6	No	Field Delineated	0.024	0.006
Mainline	76.44	s-k3-me-013	R4SB	No	Field Delineated	0.289	0.064
Mainline	76.57	s-k3-me-014	R3UB	No	Field Delineated	0.410	0.059
Mainline	79.72	s-k3-me-002	R2UB	No	Field Delineated	0.433	0.079
Mainline	79.74	s-k3-me-001	R2UB	No	Field Delineated	0.028	0.006
Mainline	82.45	s-k2-me-001	R4SB	No	Field Delineated	0.243	0.028
Mainline	83.28	s-k2-me-002	R3UB	No	Field Delineated	0.761	0.146
Mainline	84.21	s-m1-me-001	R4SB	No	Field Delineated	0.008	0.002
Mainline	85.28	s-m1-me-002	R2UB	No	Field Delineated	0.066	0.024
Mainline	85.95	s-m1-me-004	R2UB	No	Field Delineated	0.148	0.033
Mainline	85.98	s-m1-me-003	R2UB	No	Field Delineated	0.014	0.000
Mainline	87.64	s-k3-me-008	R3UB	No	Field Delineated	2.278	0.344
Mainline	88.39	s-k3-me-010	R4SB	No	Field Delineated	0.013	0.004
Mainline	88.39	s-k3-me-011	R4SB	No	Field Delineated	0.009	0.003
Mainline	88.65	s-k4-me-007	R3UB	No	Field Delineated	0.105	0.000
Mainline	89.15	s-k1-me-002	R3UB	No	Field Delineated	0.586	0.085
Mainline	89.29	s-k1-me-003	R4SB	No	Field Delineated	0.068	0.000
Mainline	90.32	s-k1-me-001	R4SB	No	Field Delineated	0.815	0.148
Mainline	97.66	s-d-mo-001	R6	No	Desktop	0.348	0.161
Mainline	97.70	s-m1-mo-028	R4SB	No	Field Delineated	0.015	0.000

Appendix B: Waterbody Impacts Table

Pipeline Segment	Milepost	Feature ID	Cowardin Classification	PCN (Yes/No)	Delineation Status	400' Survey Corridor Impact (acre)	Workspace Impact (acre)
Mainline	98.13	s-d-mo-002	R6	No	Desktop	0.021	0.009
Mainline	98.13	s-d-mo-003	R6	No	Desktop	0.006	0.006
Mainline	100.40	s-m1-mo-031	R6	No	Field Delineated	0.044	0.012
Mainline	101.35	s-m1-mo-003	R6	No	Field Delineated	0.011	0.006
Mainline	101.36	s-m1-mo-005	R6	No	Field Delineated	0.026	0.012
Mainline	101.36	s-m1-mo-004	R6	No	Field Delineated	0.008	0.000
Mainline	102.23	s-m1-mo-006	R4SB	No	Field Delineated	0.162	0.000
Mainline	102.27	s-m1-mo-007	R4SB	No	Field Delineated	0.011	0.004
Mainline	102.30	s-m1-mo-007	R4SB	No	Field Delineated	0.030	0.004
Mainline	103.25	s-m1-mo-008	R6	No	Field Delineated	0.011	0.005
Mainline	103.65	s-m1-mo-009	R4SB	No	Field Delineated	0.107	0.000
Mainline	103.82	s-m1-mo-010	R2UB	No	Field Delineated	0.077	0.000
Mainline	103.86	s-m1-mo-011	R2UB	No	Field Delineated	0.348	0.074
Mainline	104.29	s-m1-mo-012	R6	No	Field Delineated	0.015	0.000
Mainline	105.75	s-m1-mo-027	R4SB	No	Field Delineated	0.221	0.105
Mainline	109.10	s-m1-mo-013	R2UB	No	Field Delineated	0.483	0.065
Mainline	109.12	s-m1-mo-014	R2UB	No	Field Delineated	0.060	0.000
Mainline	110.13	s-m1-mo-032	R2UB	No	Field Delineated	0.138	0.034
Mainline	112.71	s-k3-mo-008	R3UB	No	Field Delineated	0.198	0.023
Mainline	114.70	s-m1-mo-036	R6	No	Field Delineated	0.005	0.000
Mainline	117.51	s-m1-mo-019	R6	No	Field Delineated	0.003	0.003
Mainline	121.49	s-m1-mo-018	R6	No	Field Delineated	0.020	0.005
Mainline	124.88	s-k9-mo-001	R6	No	Field Delineated	0.022	0.010
Mainline	125.85	s-k9-mo-002	R4SB	No	Field Delineated	0.083	0.022
Mainline	126.61	s-d-mo-004	R6	No	Desktop	0.021	0.000
Mainline	126.79	s-d-mo-005	R2UB	Yes	Desktop	0.921	0.113
Mainline	127.32	s-d-mo-006	R4SB	No	Desktop	0.306	0.116
Mainline	129.38	s-d-mo-007	R6	No	Desktop	0.041	0.010
Mainline	129.39	s-d-mo-008	R6	No	Desktop	0.014	0.000
Mainline	131.22	s-d-mo-009	R6	No	Desktop	0.037	0.008
Mainline	137.08	s-k3-mo-007	R4SB	No	Field Delineated	0.290	0.082
Mainline	137.69	s-m1-mo-022	R2UB	No	Field Delineated	0.816	0.112
Mainline	138.03	s-m1-mo-024	R4SB	No	Field Delineated	0.442	0.095
Mainline	140.60	s-m1-mo-026	R2UB	No	Field Delineated	0.632	0.165
Mainline	140.70	s-m1-mo-025	R4SB	No	Field Delineated	0.407	0.063
Mainline	141.15	s-k3-mo-003	R3UB	No	Field Delineated	0.683	0.069
Mainline	141.77	s-k3-mo-005	R3UB	No	Field Delineated	0.579	0.189
Mainline	145.09	s-k2-mo-001	R2UB	No	Field Delineated	0.096	0.025
Mainline	148.06	s-k3-mo-006	R4SB	No	Field Delineated	0.333	0.092
Mainline	151.38	s-k3-mo-002	R2UB	No	Field Delineated	0.051	0.001
Mainline	155.88	s-k4-mo-004	R3UB	No	Field Delineated	0.013	0.004
Mainline	155.88	s-k4-mo-003	R3UB	No	Field Delineated	0.002	0.000
Mainline	157.72	s-k4-mo-002	R3UB	No	Field Delineated	0.032	0.010
Mainline	157.95	s-k4-mo-001	R3UB	No	Field Delineated	0.020	0.005
Mainline	159.25	s-k7-mo-001	R4SB	No	Field Delineated	0.168	0.035
Mainline	159.80	s-k3-mo-001	R2US	No	Field Delineated	0.230	0.066
Mainline	160.21	s-k7-mo-004	R4SB	No	Field Delineated	0.096	0.045
Mainline	160.63	s-k7-mo-002	R4SB	No	Field Delineated	0.028	0.005
Mainline	160.68	s-k7-mo-003	R4SB	No	Field Delineated	0.008	0.002
Mainline	162.19	s-m1-mo-001	R6	No	Field Delineated	0.006	0.000
Mainline	163.20	s-m1-mo-002	R6	No	Field Delineated	0.043	0.010
Mainline	164.89	s-d-mo-010	R2UB	Yes	Desktop	49.681	12.418
Mainline	165.26	s-m1-em-001	R6	No	Field Delineated	0.033	0.004
Mainline	165.33	s-k3-em-001	R2UB	No	Field Delineated	0.050	0.000
Mainline	170.62	s-k2-em-001	R3UB	No	Field Delineated	0.730	0.117
Mainline	172.56	s-k2-em-002	R4SB	No	Field Delineated	0.165	0.035
Mainline	172.97	s-k2-em-003	R4SB	No	Field Delineated	0.131	0.026
Mainline	177.68	s-k2-em-004	R4SB	No	Field Delineated	0.138	0.029
Mainline	178.19	s-k2-em-005	R3UB	No	Field Delineated	0.257	0.041
Mainline	178.35	s-k2-em-006	R4SB	No	Field Delineated	0.037	0.012
Mainline	178.47	s-k2-em-007	R4SB	No	Field Delineated	0.315	0.077
Mainline	178.51	s-k2-em-008	R4SB	No	Field Delineated	0.298	0.113
Mainline	178.63	s-k2-em-009	R3UB	No	Field Delineated	0.238	0.077
Mainline	181.34	s-k2-em-010	R4SB	No	Field Delineated	0.014	0.001
Mainline	181.83	s-k2-em-011	R3UB	No	Field Delineated	0.423	0.074

Appendix B: Waterbody Impacts Table

Pipeline Segment	Milepost	Feature ID	Cowardin Classification	PCN (Yes/No)	Delineation Status	400' Survey Corridor Impact (acre)	Workspace Impact (acre)
Mainline	182.22	s-d-em-001	R2UB	No	Desktop	0.292	0.059
Mainline	185.43	s-k2-em-012	R4SB	No	Field Delineated	0.110	0.020
Mainline	191.75	s-k2-em-013	R3UB	No	Field Delineated	0.055	0.012
Mainline	195.88	s-d-em-003	R6	No	Desktop	0.022	0.009
Mainline	195.97	s-d-em-002	R6	No	Desktop	0.092	0.000
Mainline	196.42	s-k2-em-015	R4SB	No	Field Delineated	0.027	0.006
Mainline	196.51	s-k2-em-014	R4SB	No	Field Delineated	0.056	0.014
Mainline	197.96	s-d-em-004	R6	No	Desktop	0.080	0.014
Mainline	198.40	s-k1-em-002	R4SB	No	Field Delineated	0.168	0.039
Mainline	202.23	s-k2-em-017	R4SB	No	Field Delineated	0.014	0.000
Mainline	202.80	s-k2-em-016	R4SB	No	Field Delineated	0.045	0.014
Mainline	205.99	s-d-em-005	R6	No	Desktop	0.047	0.009
Mainline	206.39	s-d-em-006	R6	No	Desktop	0.038	0.008
Mainline	208.90	s-d-em-007	R4SB	No	Desktop	0.663	0.090
Mainline	209.49	s-k2-em-018	R4SB	No	Field Delineated	0.065	0.015